



Federal Emergency Management Agency

Washington, D.C. 20472

JAN 24 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 01-09-621P

The Honorable Mike Franzoia
Mayor, City of Elko
1751 College Avenue
Elko, NV 89801

Community: City of Elko, NV
Community No.: 320010
Panel Affected: 0004 C
Effective Date of **MAY 08 2002**
This Revision:

102-I-A-C

Dear Mayor Franzoia:

This responds to a request that the Federal Emergency Management Agency (FEMA) revise the effective Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for your community in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated April 11, 2001, Mr. Ferron S. Konakis, P.E., City Engineer, Engineering Department, City of Elko, requested that FEMA revise the FIRM and FIS report to show the effects of construction of a 103-inch by 71-inch corrugated-metal arch pipe culvert along Metzler Wash from just upstream of Clarkson Drive to just downstream of Lamoille Highway and a revised hydraulic analysis to reflect updated topographic information along Metzler Wash from just upstream of Clarkson Drive to approximately 2,100 feet upstream of Lamoille Highway.

All data required to complete our review of this request were submitted with letters from Mr. Konakis.

We have completed our review of the submitted data and the flood data shown on the effective FIRM and in the effective FIS report. We have revised the FIRM and FIS report to modify the elevations and floodplain and floodway boundary delineations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) along Metzler Wash from just upstream of Clarkson Drive to approximately 2,100 feet upstream of Lamoille Highway. As a result of the modifications, the Base Flood Elevations (BFEs) and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, for the revised reach of Metzler Wash increased in some areas and decreased in other areas, and the width of the regulatory floodway decreased. The increases in BFE are a result of updated topographic information. The base flood is contained within the culvert from just upstream of Clarkson Drive to just downstream of Lamoille Highway. The modifications are shown on the enclosed annotated copies of FIRM Panel 0004 C, Profile Panels 06P and 07P, and affected portions of the Summary of Discharges Table and Floodway Data Table. This Letter of Map Revision (LOMR) hereby revises the above-referenced panel of the effective FIRM and the affected portions of the FIS report, both dated November 16, 1995.

The modifications are effective as of the date shown above. The map panel listed above and as modified by this letter will be used for all flood insurance policies and renewals issued for your community.

The following table is a partial listing of existing and modified BFEs:

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 700 feet upstream of Lamoille Highway	5,110	5,111
Approximately 1,600 feet upstream of Lamoille Highway	5,130	5,129
Approximately 2,100 feet upstream of Lamoille Highway	None	5,139

*Referenced to the National Geodetic Vertical Datum, rounded to the nearest whole foot

Public notification of the proposed modified BFEs will be given in the *Elko Daily Free Press* on or about January 31, 2002 and February 7, 2002. A copy of this notification is enclosed. In addition, a notice of changes will be published in the *Federal Register*. Within 90 days of the second publication in the *Elko Daily Free Press*, any interested party may request that FEMA reconsider the determination made by this LOMR. Any request for reconsideration must be based on scientific or technical data. All interested parties are on notice that, until the 90-day period elapses, the determination to modify the BFEs made by this LOMR may itself be modified.

Because this LOMR will not be printed and distributed to primary users, such as local insurance agents and mortgage lenders, your community will serve as a repository for these new data. We encourage you to disseminate the information reflected by this LOMR throughout the community, so that interested persons, such as property owners, local insurance agents, and mortgage lenders, may benefit from the information. We also encourage you to prepare a related article for publication in your community's local newspaper. This article should describe the assistance that officials of your community will give to interested persons by providing these data and interpreting the NFIP maps.

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panel and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

The floodway is provided to your community as a tool to regulate floodplain development. Therefore, the floodway modifications described in this LOMR, while acceptable to FEMA, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

This LOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

The basis of this LOMR is, in whole or in part, a channel-modification/culvert project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities ensure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel and culvert rests with your community.

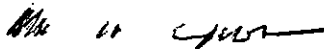
This determination has been made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and is in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed minimum NFIP criteria. These criteria are the minimum and do not supersede any State or local requirements of a more stringent nature. This includes adoption of the effective FIRM to which the regulations apply and the modifications described in this LOMR. Our records show that your community has met this requirement.

A Consultation Coordination Officer (CCO) has been designated to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Jack Eldridge
Chief, Community Mitigation Programs Branch
Federal Emergency Management Agency, Region IX
The Presidio of San Francisco, Building 105
San Francisco, CA 94129-1250
(415) 923-7184

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please call the CCO for your community at the telephone number cited above. If you have any questions regarding this LOMR, please call our Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,



Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Federal Insurance and
Mitigation Administration

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Federal Insurance and
Mitigation Administration

Enclosures

cc: Mr. Ferron S. Konakis, P.E.
City Engineer
Engineering Department
City of Elko

Ms. Leasa Hermansen
Engineering Department
City of Elko

Mr. Greg Poole
Hansen, Allen & Luce, Inc.

CHANGES ARE MADE IN DETERMINATIONS OF BASE FLOOD ELEVATIONS FOR THE CITY OF ELKO, ELKO COUNTY, NEVADA, UNDER THE NATIONAL FLOOD INSURANCE PROGRAM

On November 16, 1995, the Federal Emergency Management Agency identified Special Flood Hazard Areas (SFHAs) in the City of Elko, Elko County, Nevada, through issuance of a Flood Insurance Rate Map (FIRM). The Federal Insurance and Mitigation Administration has determined that modification of the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) for certain locations in this community is appropriate. The modified Base Flood Elevations (BFEs) revise the FIRM for the community.

The changes are being made pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (Public Law 93-234) and are in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, Public Law 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65.

A hydraulic analysis was performed to incorporate construction of a 103-inch by 71-inch corrugated-metal arch pipe culvert from just upstream of Clarkson Drive to just downstream of Lamoille Highway and updated topographic information from just upstream of Clarkson Drive to approximately 2,100 feet upstream of Lamoille Highway. This has resulted in a revised delineation of the regulatory floodway, increases and decreases in SFHA width, and increased and decreased BFEs for Metzler Wash. The aforementioned culvert contains the base flood. The table below indicates existing and modified BFEs for selected locations along the affected lengths of the flooding source(s) cited above.

Location	Existing BFE (feet)*	Modified BFE (feet)*
Approximately 700 feet upstream of Lamoille Highway	5,110	5,111
Approximately 1,600 feet upstream of Lamoille Highway	5,130	5,129
Approximately 2,100 feet upstream of Lamoille Highway	None	5,139

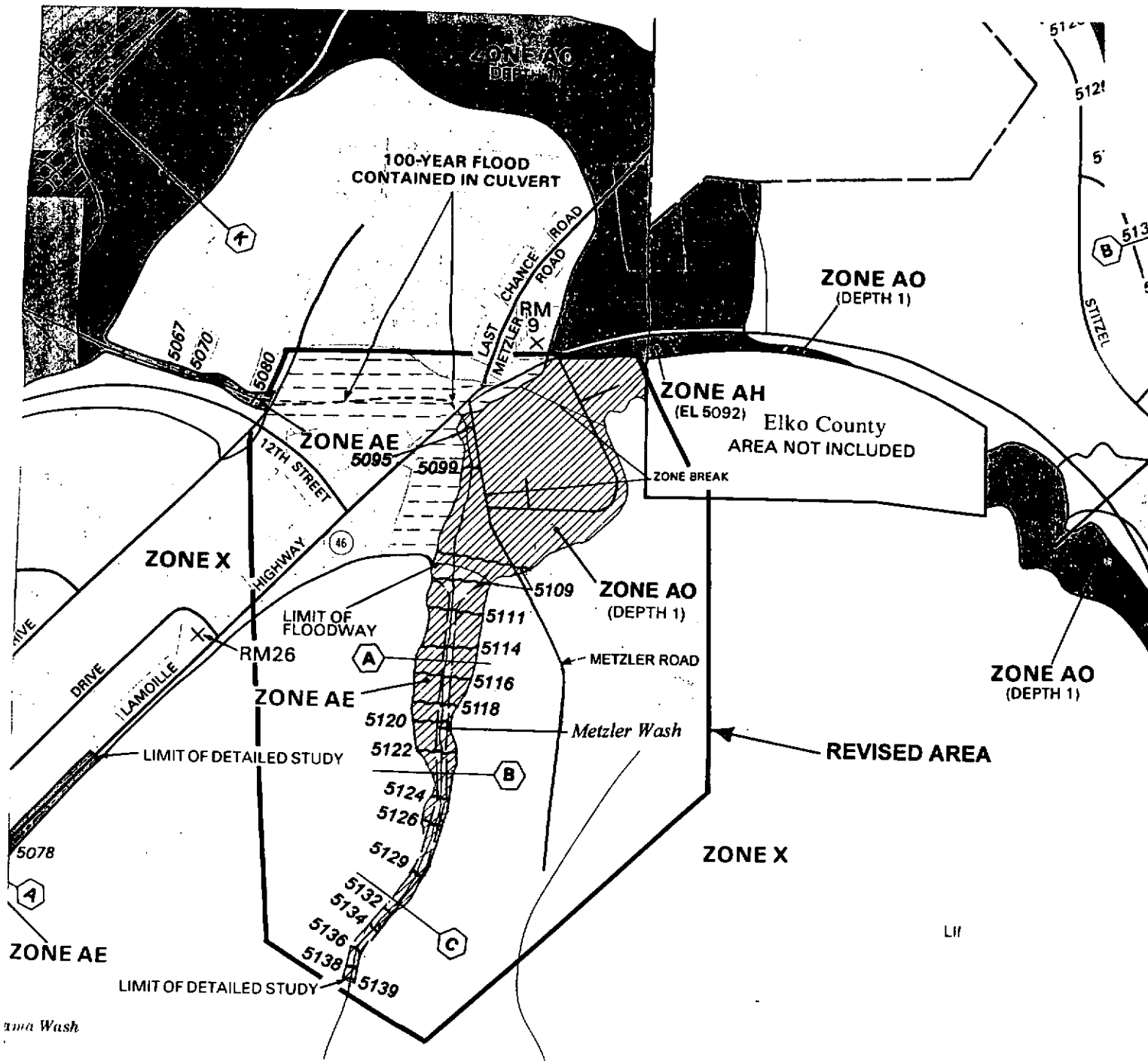
*National Geodetic Vertical Datum, rounded to nearest whole foot

Under the above-mentioned Acts of 1968 and 1973, the Federal Insurance and Mitigation Administration must develop criteria for floodplain management. To participate in the National Flood Insurance Program (NFIP), the community must use the modified BFEs to administer the floodplain management measures of the NFIP. These modified BFEs will also be used to calculate the appropriate flood insurance premium rates for new buildings and their contents and for the second layer of insurance on existing buildings and contents.

Upon the second publication of notice of these changes in this newspaper, any person has 90 days in which he or she can request, through the Chief Executive Officer of the community, that the Federal Insurance and Mitigation Administration reconsider the determination. Any request for reconsideration must be based on knowledge of changed conditions or new scientific or technical data. All interested parties are on notice that until the 90-day period elapses, the Federal Insurance and Mitigation Administration's determination to modify the BFEs may itself be changed.

Any person having knowledge or wishing to comment on these changes should immediately notify:

The Honorable Mike Franzioia
Mayor, City of Elko
1751 College Avenue
Elko, NV 89801

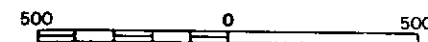


MAP LEGEND

- Revised Floodway
- Revised 100-Year Floodplain
- Revised 500-Year Floodplain



APPROXIMATE SCALE IN FEET



FOR LIBRARY USE ONLY
NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

CITY OF
ELKO,
NEVADA
ELKO COUNTY

(SEE MAP INDEX FOR PANELS NOT PRINTED)

REVISED TO
REFLECT LOMR
DATED MAY 08 2002

COMMUNITY-PANEL NUMBER
320010 0004 C

MAP REVISED:
NOVEMBER 16, 1995



Federal Emergency Management Agency

ama Wash

Table 1. Summary of Discharges

<u>Flooding Source and Location</u>	<u>Drainage Area (square miles)</u>	<u>Peak Discharges (cubic feet per second)</u>			
		<u>10-Year</u>	<u>50-Year</u>	<u>100-Year</u>	<u>500-Year</u>
Humboldt River At Twelfth Street	2,912	4,000	7,200	9,700	20,000
Metzler Wash Just upstream of Lamoille Highway At Lamoille Highway		REVISED DATA			
		-- ¹	-- ¹	437	-- ¹
		-- ¹	-- ¹	180	-- ¹
Culley's Gulley At Last Chance Road	3.30	-- ¹	-- ¹	154	-- ¹
At Lamoille Highway	3.17	-- ¹	-- ¹	1,157	-- ¹
Golf Course Drainage At Interstate 80	3.46	-- ¹	-- ¹	1,457	-- ¹
East Adobe Creek At Interstate 80	6.24	-- ¹	-- ¹	1,562	-- ¹
22 East Drainage At Bullion Road	.43	-- ¹	-- ¹	237	-- ¹
Eightmile Creek At SCS Dam	11.60	-- ¹	-- ¹	4,519	-- ¹
At Interstate 80	12.18	-- ¹	-- ¹	386	-- ¹
Fifth Street Drainage At SCS Dam	1.03	-- ¹	-- ¹	234	-- ¹
22 Middle Drainage At Bullion Road	1.08	-- ¹	-- ¹	471	-- ¹
Panorama Wash At Lamoille Highway	.44	-- ¹	-- ¹	230	-- ¹
Southside Drainage At SCS Dam	1.03	-- ¹	-- ¹	499	-- ¹

¹Not determined

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REFLECT LOMR
DATED MAY 08 2002

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
(FEET NGVD)								
Metzler Wash								
A	2,577	18	48	9.1	5,114.8	5,114.8	5,115.4	0.6
B	3,000	25	62	7.0	5,122.3	5,122.3	5,122.8	0.5
C	3,460	44	85	5.1	5,130.6	5,130.6	5,131.0	0.4

¹Feet Above Confluence with Humboldt River

T A B L E 2	FEDERAL EMERGENCY MANAGEMENT AGENCY CITY OF ELKO,NV (ELKO COUNTY)	FLOODWAY DATA
		METZLER WASH REVISED TO REFLECT LOMR DATED MAY 08 2002

